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Baker Botts LLP			THANGAVELU, KANDASAMY		
2001 Ross Ave Dallas, TX 75			ART UNIT	PAPER NUMBER	
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			DATE MAILED: 12/30/2003	2	

Please find below and/or attached an Office communication concerning this application or proceeding.



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•:		Appli	cation No.	Applicant(s)	8			
Office Action Summary		09/66	62,366	CHAPMAN, BARR	Y L. U			
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THE - Exte after - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUInsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this core period for reply specified above is less than thirty of period for reply is specified above, the maximum are to reply within the set or extended period for repreply received by the Office later than three monthed patent term adjustment. See 37 CFR 1.704(b).	NICATION.  Ins of 37 CFR 1.136(a). In Immunication.  (30) days, a reply within the statutory period will apply a ply will, by statute, cause the after the mailing date of the safter t	no event, however, may a rep e statutory minimum of thirty ( and will expire SIX (6) MONTh e application to become ABAI	ly be timely filed  30) days will be considered timely  35 from the mailing date of this condoned  NDONED (35 U.S.C. § 133).				
1)🖂	Responsive to communication(s) f	iled on <u>13 Septemb</u>	<u>oer 2000</u> .					
2a) <u></u>	This action is <b>FINAL</b> .	2b)⊠ This action	is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the 4a) Of the above claim(s) is. Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to rest	/are withdrawn from						
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9)🖾	The specification is objected to by	the Examiner.						
10)⊠	The drawing(s) filed on 13 Septem	<i>ber 2000</i> is/are: a)	⊠ accepted or b)□	objected to by the Exam	niner.			
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	under 35 U.S.C. §§ 119 and 120							
a) 13)□ / s 3 a 14)□ /	Acknowledgment is made of a clai  All b) Some * c) None of  1. Certified copies of the priorit  2. Certified copies of the priorit  3. Copies of the certified copie     application from the Internal See the attached detailed Office act Acknowledgment is made of a claim ince a specific reference was included  7 CFR 1.78.  a) The translation of the foreign I Acknowledgment is made of a claim eference was included in the first see	ty documents have by documents have so of the priority document (PCT) ion for a list of the confort demands for the first sentenanguage provisional for domestic priority for domestic priority for domestic priority for domestic priority demands for domestic priority documents for domestic priority documents for domestic priority documents for document	been received. been received in Appleuments have been received in Appleuments have been received and appleuments at under 35 U.S.C. § ence of the specificate at application has been ty under 35 U.S.C. §	olication No eceived in this National Seceived. 119(e) (to a provisional ion or in an Application I en received. § 120 and/or 121 since a	application) Data Sheet. a specific			
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#### **DETAILED ACTION**

#### Introduction

1. Claims 1-13 of the application have been examined.

## **Drawings**

2. The drawings submitted on September 13, 2000 are accepted.

## Specification

3. The disclosure is objected to because of the following informalities:

Page 6, Lines 29-31, "the transport ports 12 and 17 could alternatively be use some existing or future communication protocol" appears to be incorrect and it appears that it should be "the transport ports 12 and 17 could alternatively use some existing or future communication protocol".

Page 31, Lines 5-7, "If protected OC-3 line interfaces are required, then two ... are required" appears to be incorrect and it appears that it should be "If unprotected OC-3 line interfaces are required, then two ... are required".

Appropriate corrections are required.

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## Claim Objections

4. The following is a quotation of 37 C.F.R § 1.75 (d)(1):

The claim or claims must conform to the invention as set forth in the remainder of the specification and terms and phrases in the claims must find clear support or antecedent basis in the description so that the meaning of the terms in the claims may be ascertainable by reference to the description.

5. Claims 1 and 4 are objected to because of the following informalities:

Claim 1, Lines 5-6, "a plurality of different component combinations that each serve as a respective said product" appears to be incorrect and it appears that it should be "a plurality of different component combinations that each serves as a respective said product".

Claim 4, Lines 24-25, "components that are separate from but related to at least some of said products, said component;" appears to be incorrect and it appears that it should be "components that are separate from but related to at least some of said products;".

Appropriate corrections are required.

#### Claim Rejections - 35 USC § 112

6. The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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7. Claims 8 and 9 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 8 states, in part "in each of said products, the number of said components therein identified as corresponding to at least one of said first and second component classes cumulatively represent at least 40% of the total number of said components therein". The specification does not describe this requirement and how this requirement is used in

"identifying a criteria set having a plurality of different states which each correspond to a respective one of said products; and

associating with each said state of said criteria set a definition of a combination of the components from said component group which is present in the corresponding product",

as claimed in claim 1. Therefore, it is not clear why this requirement "said first and second component classes cumulatively represent at least 40% of the total number of said components" is claimed and how it could be used in the configuration of products advantageously.

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Claim 9 states, in part "determining whether each of said products meets a condition, said condition being that the number of said components therein identified as corresponding to at least one of said first and second component classes cumulatively represent at least 40% of the total number of said components therein". The specification does not describe this requirement and how this requirement is used in

"identifying a criteria set having a plurality of different states which each correspond to a respective one of said products; and

associating with each said state of said criteria set a definition of a combination of the components from said component group which is present in the corresponding product",

as claimed in claim 1. Therefore, it is not clear why this requirement "said first and second component classes cumulatively represent at least 40% of the total number of said components" is claimed and how it could be used in the configuration of products advantageously.

Claim 9 states, in part "responding to a determination that one of said products does not meet said condition by effecting an adjustment which causes one of said components determined to correspond to said third component class to be treated as corresponding to said second component class rather than said third component class". The specification does not describe this requirement and how this requirement is used in

"identifying a criteria set having a plurality of different states which each correspond to a respective one of said products; and

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associating with each said state of said criteria set a definition of a combination of the components from said component group which is present in the corresponding product",

as claimed in claim 1. Therefore, it is not clear why this requirement "causes one of said components determined to correspond to said third component class to be treated as corresponding to said second component class rather than said third component class" is claimed and how it could be used in the configuration of products advantageously.

- 8. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 9. Claims 8 and 9 are rejected under 35 U.S.C. § 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are:

Claim 8 states, in part "said determining steps are carried out in a manner so that, in each of said products, the number of said components therein identified as corresponding to at least one of said first and second component classes cumulatively represent at least 40% of the total number of said components therein". This claim does not include a step of using this information in

"identifying a criteria set having a plurality of different states which each correspond to a respective one of said products; and

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associating with each said state of said criteria set a definition of a combination of the components from said component group which is present in the corresponding product",

as claimed in claim 1. Therefore, it is not clear how this requirement "said first and second component classes cumulatively represent at least 40% of the total number of said components" is used in the configuration of products advantageously.

Claim 9 states, in part "determining whether each of said products meets a condition, said condition being that the number of said components therein identified as corresponding to at least one of said first and second component classes cumulatively represent at least 40% of the total number of said components therein". This claim does not include a step of using this information in

"identifying a criteria set having a plurality of different states which each correspond to a respective one of said products; and

associating with each said state of said criteria set a definition of a combination of the components from said component group which is present in the corresponding product",

as claimed in claim 1. Therefore, it is not clear how this requirement "said first and second component classes cumulatively represent at least 40% of the total number of said components" is used in the configuration of products advantageously.

Claim 9 states, in part "responding to a determination that one of said products does not meet said condition by effecting an adjustment which causes one of said

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components determined to correspond to said third component class to be treated as corresponding to said second component class rather than said third component class".

This claim does not include a step of using this information in

"identifying a criteria set having a plurality of different states which each correspond to a respective one of said products; and

associating with each said state of said criteria set a definition of a combination of the components from said component group which is present in the corresponding product",

as claimed in claim 1. Therefore, it is not clear how this requirement "causes one of said components determined to correspond to said third component class to be treated as corresponding to said second component class rather than said third component class" is used in the configuration of products advantageously.

### Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

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11. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 12. Claims 1-6 and 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch et al. (LY) (U.S. Patent application 2002/0035463) in view of Mori et al. (MO) (IEEE, 1993), and further in view of Iizuka et al. (II) (IEEE, 1988) and Deang (DE) (IEEE, 1998).
- 12.1 LY teaches method and apparatus for configuring systems. Specifically, as per Claim 1, LY teaches a method for facilitating configuration of one of a plurality of different products from a set of components which can be selectively combined in different ways to form a plurality of different component combinations that each serve as a respective product (Abstract, L1-4; Page 1, Para 0004; Page 3, Para 0029); comprising the steps of:

determining whether each component in the set corresponds to a first component class involving components that are required in each product without variation in quantity and type (Abstract, L11-17; Page 4, Para 0037 and Para 0038).

LY does not expressly teach determining whether each component in the set corresponds to a second component class involving components that are required in each product but that vary among the products with respect to at least one of quantity and type. MO teaches

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determining whether each component in the set corresponds to a second component class involving components that are required in each product but that vary among the products with respect to at least one of quantity and type (Page 306, CL2, Para 1, L3-5; Page 307, CL1, Para 5, L5-6), as the system configuration task involves a large number of correlated hardware and software restrictions to be considered (Page 306, CL2, Para 1, L1 and Para 3, L2-3) and as per LY, the system has to be configured by identifying the component and resource needs, constraints imposed on or by the resources or components identified and the structural aspects of the system (Abstract, L16-19). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of MO that included determining whether each component in the set corresponded to a second component class involving components that were required in each product but that varied among the products with respect to at least one of quantity and type, as the system configuration task would involve a large number of correlated hardware and software restrictions to be considered and the system would have to be configured by identifying the component and resource needs, constraints imposed on or by the resources or components identified and the structural aspects of the system.

LY does not expressly teach determining whether each component in the set corresponds to a third component class involving components that are each present in some but not all of the products, the components corresponding to the second and third component classes collectively forming a component group. II teaches determining whether each component in the set corresponds to a third component class involving components that are each present in some but not all of the products, the components corresponding to the second and third component classes

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collectively forming a component group (Page 442, CL1, Para 2), as that provides advice based on empirical rules developed by experienced engineers to simplify possible system enhancement in the future (Page 442, CL1, Para 2). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of II that included determining whether each component in the set corresponds to a third component class involving components that are each present in some but not all of the products, the components corresponding to the second and third component classes collectively forming a component group, as that would provide advice based on empirical rules developed by experienced engineers to simplify possible system enhancement in the future.

LY does not expressly teach identifying a criteria set having a plurality of different states which each correspond to a respective one of the products. **DE** teaches identifying a criteria set having a plurality of different states which each correspond to a respective one of the products (Page 1, CL1, Para 2, L1-3; Page 2, CL1, Para 3, L1-4; Page 3, CL1, Para 5, L1-3), as that allows a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of **LY** with the method of **DE** that included identifying a criteria set having a plurality of different states which each correspond to a respective one of the products, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

LY does not expressly teach associating with each state of the criteria set a definition of a combination of the components from the component group which is present in the corresponding

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product. **DE** teaches associating with each state of the criteria set a definition of a combination of the components from the component group which is present in the corresponding product (Page 1, CL1, Para 3, L3-4; Page 2, CL2, Para 4, L4-7; Page 3, CL1, Para 5, L1-3; Page 3, CL2, Para 2, L1-7), as that allows a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of **LY** with the method of **DE** that included associating with each state of the criteria set a definition of a combination of the components from the component group which is present in the corresponding product, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

12.2 As per Claim 2, **LY**, **MO**, **II** and **DE** teach the method of Claim 1. **LY** does not expressly teach that the products each have therein one of a plurality of different combinations of the components corresponding to the second component class. **MO** teaches that the products each have therein one of a plurality of different combinations of the components corresponding to the second component class (Page 306, CL2, Para 1, L3-5; Page 307, CL1, Para 5, L5-6), as the system configuration task involves a large number of correlated hardware and software restrictions to be considered (Page 306, CL2, Para 1, L1 and Para 3, L2-3) and as per **LY**, the system has to be configured by identifying the component and resource needs, constraints imposed on or by the resources or components identified and the structural aspects of the system (Abstract, L16-19). It would have been obvious to one of ordinary skill in the art at the time of

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Applicant's invention to combine the method of LY with the method of MO that included the products each having therein one of a plurality of different combinations of the components corresponding to the second component class, as the system configuration task would involves a large number of correlated hardware and software restrictions to be considered and the system would have to be configured by identifying the component and resource needs, constraints imposed on or by the resources or components identified and the structural aspects of the system.

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LY does not expressly teach that the identifying step includes the step of identifying a criteria subset which is a subset of the criteria set and which has a plurality of different states, each of the products being associated with one of the states of the criteria subset. **DE** teaches that the identifying step includes the step of identifying a criteria subset which is a subset of the criteria set and which has a plurality of different states, each of the products being associated with one of the states of the criteria subset (Page 1, CL1, Para 2, L1-3; Page 2, CL1, Para 3, L1-4; Page 3, CL1, Para 5, L1-3), as that allows a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of DE that included the identifying step including the step of identifying a criteria subset which was a subset of the criteria set and which had a plurality of different states, each of the products being associated with one of the states of the criteria subset, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

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LY does not expressly teach that the identifying step includes the step of associating with each of the states of the initial criteria set a definition of a respective one of the different combinations of components corresponding to the second component class. **DE** teaches that the identifying step includes the step of associating with each of the states of the initial criteria set a definition of a respective one of the different combinations of components corresponding to the second component class (Page 1, CL1, Para 3, L3-4; Page 2, CL2, Para 4, L4-7; Page 3, CL1, Para 5, L1-3; Page 3, CL2, Para 2, L1-7), as that allows a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of **DE** that included the identifying step including the step of associating with each of the states of the initial criteria set a definition of a respective one of the different combinations of components corresponding to the second component class, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

12.3 As per Claim 3, LY, MO, II and DE teach the method of Claim 1. LY does not expressly teach the step of configuring the components so that at least one of the components in the component group is available in a plurality of types. DE teaches the step of configuring the components so that at least one of the components in the component group is available in a plurality of types (Page 3, CL1, Para 3, L4-7; Page 3, CL1, Para 5, L1-4), as that allows a system synthesis process by creating a system or subsystem from basic components according to a set of

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performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of **LY** with the method of **DE** that included the step of configuring the components so that at least one of the components in the component group was available in a plurality of types, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

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12.4 As per Claim 4, LY, MO, II and DE teach the method of Claim 1. LY does not expressly teach determining whether each component in the set corresponds to an ancillary component class involving components that are separate from but related to at least some of the products, the component; and including in the component group the components corresponding to the ancillary class. MO teaches determining whether each component in the set corresponds to an ancillary component class involving components that are separate from but related to at least some of the products, the component; and including in the component group the components corresponding to the ancillary class (Page 307, CL2, Para 2), as in addition to components specified explicitly, it is necessary to add components necessary to meet the user input requirements (Page 306, CL2, Para 2). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of MO that included determining whether each component in the set corresponds to an ancillary component class involving components that are separate from but related to at least some of the products, the component; and including in the component group the components corresponding

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to the ancillary class, as in addition to components specified explicitly, it would be necessary to add components necessary to meet the user input requirements.

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12.5 As per Claim 5, LY, MO, II and DE teach the method of Claim 1. LY does not expressly teach that the identifying step includes the step of identifying a set of questions which correspond to the criteria in the criteria set and which have different combinations of possible answers, each state of the criteria set corresponding to a respective combination of answers to the questions. **DE** teaches that the identifying step includes the step of identifying a set of questions which correspond to the criteria in the criteria set and which have different combinations of possible answers, each state of the criteria set corresponding to a respective combination of answers to the questions (Page 1, CL2, Para 2, L6-9; Page 1, CL1, Para 3, L3-4; Page 1, CL2, Para 2, L9-11; Page 3, CL1, Para 4, L1-3), as that allows an automated design and synthesis process which maps a set of input specifications to a hardware and software implementation (Page 1, CL1, Para 3) and shortens the design cycle, reduces the complexity of the design task and eases the creation of cost-effective system (Page 1, CL2, Para 2). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of DE that included the identifying step including the step of identifying a set of questions which corresponded to the criteria in the criteria set and which had different combinations of possible answers, each state of the criteria set corresponding to a respective combination of answers to the questions, as that would allow an automated design and synthesis process which mapped a set of input specifications to a hardware and software

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implementation and shortened the design cycle, reduced the complexity of the design task and eased the creation of cost-effective system.

12.6 As per Claim 6, LY, MO, II and DE teach the method of Claim 1. LY does not expressly teach the step of presenting questions from the set of questions to a person, accepting from the person an answer to each question, and configuring a product based on the answers accepted from the person. DE teaches the step of presenting questions from the set of questions to a person, accepting from the person an answer to each question, and configuring a product based on the answers accepted from the person (Page 1, CL2, Para 2, L6-9; Page 1, CL1, Para 3, L3-4; Page 1, CL2, Para 2, L9-11; Page 3, CL1, Para 4, L1-3), as that allows an automated design and synthesis process which maps a set of input specifications to a hardware and software implementation (Page 1, CL1, Para 3) and shortens the design cycle, reduces the complexity of the design task and eases the creation of cost-effective system (Page 1, CL2, Para 2). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of DE that included the step of presenting questions from the set of questions to a person, accepting from the person an answer to each question, and configuring a product based on the answers accepted from the person, as that would allow an automated design and synthesis process which mapped a set of input specifications to a hardware and software implementation and shortened the design cycle, reduced the complexity of the design task and eased the creation of cost-effective system.

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As per Claim 10, LY, MO, II and DE teach the method of Claim 1. LY does not 12.7 expressly teach including prior to the determining steps, the step of generating for each component respective component information which includes an identification of all types of component and includes configuration information defining the conditions under which a particular type and quantity of that component are used in each of the products. **DE** teaches including prior to the determining steps, the step of generating for each component respective component information which includes an identification of all types of component and includes configuration information defining the conditions under which a particular type and quantity of that component are used in each of the products (Page 3, CL2, Para 2, L4-7; Page 3, CL2, Para 3), as that allows a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of DE that included including prior to the determining steps, the step of generating for each component respective component information which includes an identification of all types of component and includes configuration information defining the conditions under which a particular type and quantity of that component are used in each of the products, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

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12.8 As per Claim 11, LY, MO, II and DE teach the method of Claim 10. LY does not expressly teach that the step of generating the component information includes the step of taking

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engineering limitations into account in preparing the configuration information. MO teaches that the step of generating the component information includes the step of taking engineering limitations into account in preparing the configuration information (Page 306, CL2, Para 3), because as per DE, that allows a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements (Page 1, CL1, Para 2, L1-3). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of MO that included the step of generating the component information including the step of taking engineering limitations into account in preparing the configuration information, as that would allow a system synthesis process by creating a system or subsystem from basic components according to a set of performance, cost and functionality requirements.

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- 12.9 As per Claim 12, LY, MO, II and DE teach the method of Claim 1. LY also teaches after the determining, identifying and associating step, the step of preparing a flowchart which graphically represents a mapping between the different states of the criteria set and the definitions of combinations of the components from the component group (Figs. 6-10).
- 12.10 As per Claim 13, **LY**, **MO**, **II** and **DE** teach the method of Claim 1. **LY** also teaches the step of configuring one of the components which corresponds to the first component class so that it can removably receive therein a plurality of other the components (Abstract, L1-3; Page 4, CL1, Para 0035-0038).

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13. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch et al. (LY) (U.S. Patent application 2002/0035463) in view of Mori et al. (MO) (IEEE, 1993), Iizuka et al. (II) (IEEE, 1988) and Deang (DE) (IEEE, 1998), and further in view of Bannai et al. (BA) (U.S. Patent 6,647,428).

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13.1 As per Claim 7, LY, MO, II and DE teach the method of Claim 1. LY does not expressly teach that each of the products is a telecommunications product having transport interfaces and tributary interfaces. BA teaches that each of the products is a telecommunications product having transport interfaces and tributary interfaces (Fig. 4; CL1, L10-13 and L20-25), as that facilitates end-to-end transport of multiple services originating at a variety different types of tributary interfaces located at low speed ingress ports at customer premises (CL1, L10-13 and L20-25). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of BA that included each of the products being a telecommunications product having transport interfaces and tributary interfaces, as that would facilitate end-to-end transport of multiple services originating at a variety different types of tributary interfaces located at low speed ingress ports at customer premises.

LY does not expressly teach that the identifying step includes the step of including within the criteria set at least one of a network element type, a speed for the transport interfaces, whether the transport interfaces are to be protected, a reach of the transport interfaces, whether ATM interface capability is to be present, a speed for the tributary interfaces, a quantity of the tributary interfaces, whether the tributary interfaces are to be protected, and a reach of the

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tributary interfaces. BA teaches that the identifying step includes the step of including within the criteria set at least one of a network element type, a speed for the transport interfaces, whether the transport interfaces are to be protected, a reach of the transport interfaces, whether ATM interface capability is to be present, a speed for the tributary interfaces, a quantity of the tributary interfaces, whether the tributary interfaces are to be protected, and a reach of the tributary interfaces (Fig. 2; CL3, L43-67; CL1, L26-28), as that facilitates delivering data from a variety of different kinds of external interfaces to corresponding compatible external interfaces elsewhere in the network (CL3, L43-46), and enable data to be rerouted in the event of failure (CL1, L27). It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the method of LY with the method of BA that included the identifying step including within the criteria set at least one of a network element type, a speed for the transport interfaces, whether the transport interfaces are to be protected, a reach of the transport interfaces, whether ATM interface capability is to be present, a speed for the tributary interfaces, a quantity of the tributary interfaces, whether the tributary interfaces are to be protected, and a reach of the tributary interfaces, as that would facilitate delivering data from a variety of different kinds of external interfaces to corresponding compatible external interfaces elsewhere in the network, and enable data to be rerouted in the event of failure.

#### **Conclusion**

14. The prior art made of record and not relied upon is considered pertinent to the Applicants' disclosure.

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The following patents and papers are cited to further show the state of the art at the time of Applicant's invention with respect to automated product and system configuration using interactive methods for computer and communication systems:

- 1. Cook et al., "Automated system for facilitating creation of a rack-mountable component personnel computer", U.S. patent 5,850,539, December 1998.
- Fisher et al., "Computer manufacturing with smart configuration methods",
   U.S. Patent 6,247,128, June 2001.
- Maritzen et al., "Platform-independent, usage-independent, and accessindependent distributed quote configuration system", U.S. patent 5,870,719, February 1999.
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Kandasamy Thangavelu whose telephone number is 703-305-0043. The examiner can normally be reached on Monday through Friday from 8:00 AM to 5:30 PM.

If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska, can be reached on (703) 305-9704. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

K. Thangavelu Art Unit 2123 December 24, 2003

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